

(August 7, 2006)

Traffic Signal Standards

Traffic signal standards shall be furnished and installed in accordance with the methods and materials noted in the applicable Standard Plans, pre-approved plans, or special design plans.

All welds shall comply with the latest AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. Welding inspection shall comply with Section 6-03.3(25)A Welding Inspection.

Hardened washers shall be used with all signal arm connecting bolts instead of lockwashers. All signal arm AASHTO M 164 connecting bolts shall be tightened to 40 percent of proof load.

Traffic signal standard types and applicable characteristics are as follows:

Type PPB Pedestrian push button posts shall conform to Standard Plan J-7a or to one of the following pre-approved plans:

<u>Fabricator</u>	<u>Drawing No.</u>
Northwest Signal Supply Inc.	NWS 3530 or NWS 3530B
Valmont Ind. Inc.	DB00655 Rev. B
Ameron Pole Prod. Div.	M3723 Rev. E
Union Metal Corp.	TA-10035 Rev. 3
West Coast Engineering Group	WSDOT-PP-01 Rev. 0

Type PS Pedestrian signal standards shall conform to Standard Plan J-7a or to one of the following pre-approved plans:

<u>Fabricator</u>	<u>Drawing No.</u>
Northwest Signal Supply Inc.	NWS 3530 or NWS 3530B
Valmont Ind. Inc.	DB00655 Rev. B
Ameron Pole Prod. Div.	M3723 Rev. E or W3539 Rev. A
Union Metal Corp.	TA-10025 Rev. 13
West Coast Engineering Group	WSDOT-PP-02 Rev. 0

Type I Type I vehicle signal standards shall conform to Standard Plan J-7a or to one of the following pre-approved plans:

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2		<u>Fabricator</u>	<u>Drawing No.</u>
3		Northwest Signal	NWS 3530 or NWS 3530B
4		Supply Inc.	
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6		Valmont Ind. Inc.	DB00655 Rev. B
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8		Ameron Pole	M3723 Rev. E or W3539 Rev. A
9		Prod. Div	
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11		Union Metal Corp.	TA-10025
12			Rev. 11
13			
14		West Coast	
15		Engineering Group	WSDOT-PP-02 Rev. 0
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17	Type FB	Type FB flashing beacon standard shall conform to Standard	
18		Plan J-7a or the following pre-approved plan:	
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20		<u>Fabricator</u>	<u>Drawing No.</u>
21		Union Metal Corp	50200-B58 Rev. 3
22			
23		Valmont Ind. Inc.	DB00655 Rev. B
24			
25		Ameron Pole	W3539 Rev. B
26		Prod. Div.	
27			
28		Northwest Signal	NWS 3535 or NWS 3535B
29		Supply, Inc.	
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31	Type RM	Type RM ramp meter standard shall conform to Standard Plan J-	
32		7a or the following pre-approved plan:	
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34		<u>Fabricator</u>	<u>Drawing No.</u>
35		Union Metal Corp	50200-B58 Rev. 3
36			
37		Valmont Ind. Inc.	DB00655 Rev. B
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39		Ameron Pole	W3539 Rev. A
40		Prod. Div.	
41			
42		Northwest Signal	NWS 3535 or NWS 3535B
43		Supply, Inc.	
44			
45	Type CCTV	<u>Fabricator</u>	<u>Drawing No.</u>
46		Valmont Industries, Inc.	DB 00759 Rev. C
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48	Type II	Characteristics:	
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50		Luminaire mounting height	N.A.
51		Luminaire arms	N.A.

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Luminaire arm length N.A.
Signal arms One Only

Type II standards shall conform to one of the following pre-approved plans, provided all other requirements noted herein have been satisfied. Maximum (x) (y) (z) signal arm loadings in cubic feet are noted after fabricator.

Signal Arm Length (max)	Fabricator-(x) (y) (z)	Drawing No.
65 ft.	Valmont Ind. Inc.-(2894)	DB00625-Rev. E, Shts. 1, 2 & 3
65 ft.	Union Metal Corp. (2900)	71026-B86 Rev. 4 shts. 1, 2, & 3
65 ft.	Ameron Pole-(2900) Prod. Div.	W3724-1 Rev. E & W3724-2 Rev. D
65 ft.	Northwest Signal-(2802) Supply Inc.	NWS 3500 Rev. 10/14/03 or NWS 3500B Rev. 10/14/03
45 ft.	American Pole(1875) Structures, Inc.	WS-T2-L Rev. 1
65 ft.	American Pole (2913) Structures, Inc.	WS-T2-H Rev. 1
Type III	Characteristics:	
	Luminaire mounting height	30 ft., 35 ft., 40 ft., or 50 ft.
	Luminaire arms	One Only
	Luminaire arm type	Type 1
	Luminaire arm length (max.)	16 ft.
	Signal arms	One Only

Type III standards shall conform to one of the following pre-approved plans, provided all other requirements noted herein have been satisfied. Maximum (x) (y) (z) signal arm loadings in cubic feet are noted after fabricator.

Signal Arm Length (max)	Fabricator-(x) (y) (z)	Drawing No.
65 ft.	Valmont Ind. Inc.-(2947)	DB00625-Rev. E, Shts. 1, 2 & 3 and "J" luminaire arm

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65 ft.	Union Metal Corp. (2900)	71026-B87 Rev. 4 Shts. 1, 2 & 3
65 ft.	Ameron Pole-(2900) Prod. Div.	W3724-1 Rev. E & W3724-2 Rev. D and "J" luminaire arm
65 ft.	Northwest Signal-(2802) Supply Inc.	NWS 3500 Rev. 10/14/03 or NWS 3500B Rev. 10/14/03
45 ft.	American Pole (1875) Structures, Inc.	WS-T3J-L, Rev. 1, Shts. 1 & 2
65 ft.	American Pole (2913) Structures, Inc.	WS-T3J-H Rev. 1, Shts. 1 & 2
Type IV	Type IV strain pole standards shall be consistent with details in the plans and Standard Plan J-7c or one of the following pre-approved plans:	
	<u>Fabricator</u>	<u>Drawing No.</u>
	Northwest Signal Supply Inc.	NWS 3520 or NWS 3520B,
	Valmont Ind. Inc.	5000-4
	Ameron Pole Prod. Div.	M3650 Rev. A
	Union Metal Corp.	EA-10224 Rev. 8
	American Pole Structures, Inc.	9000-12-037 Rev. A
	West Coast Engineering Group	WSDOT-TS-01 Rev. 0 Sheets 1, 2, and 3
Type V	Type V combination strain pole and lighting standards shall be consistent with details in the plans and Standard Plan J-7c or one of the following pre-approved plans:	
	<u>Fabricator</u>	<u>Drawing No.</u>
	Northwest Signal Supply Inc.	NWS 3520 or NWS 3520B
	Valmont Ind. Inc.	5000-4
	Ameron Pole Prod. Div.	M3650 Rev. A

1	Type CCTV	As noted in the Plans.
2	Type II	As noted in the Plans.
3	Type III	As noted in the Plans.
4	Type IV	As noted in the Plans and Standard Plan J-7c.
5	Type V	As noted in the Plans and Standard Plan J-7c.
6	Type SD	As noted in the Plans.